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Energy Office

The American Recovery and Reinvestment Act (ARRA) CERAB- Routt County– Sept 21st, 2009

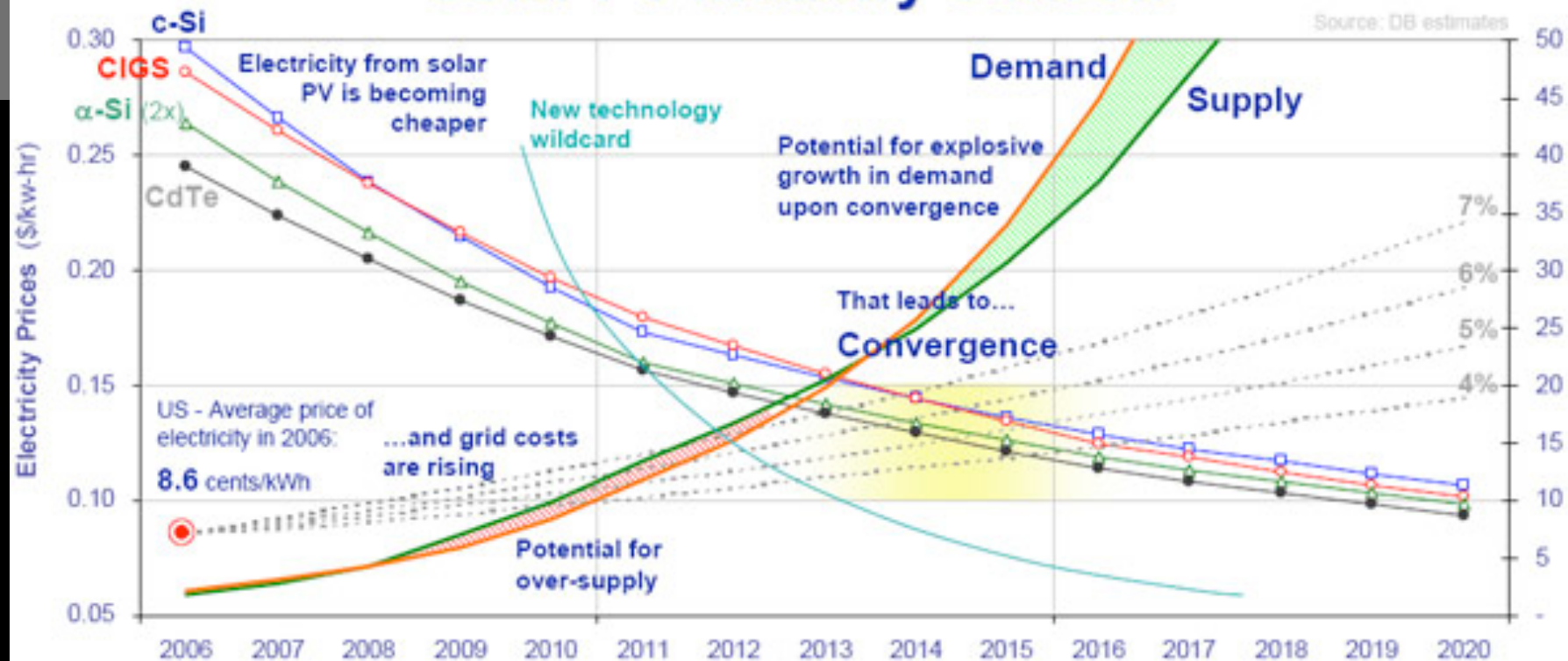
Seth Portner, Deputy Director

*“The Mission of the Governor’s Energy Office is to lead Colorado to
a New Energy Economy through energy efficiency, renewable and
clean energy resources”*



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Solar PV industry outlook





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\$8 a watt solar





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\$5.50 a watt solar pre-incentives





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ROI of 6% annually at current energy costs without full energy utilization





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What the ARRA will mean for Colorado

BRINGING IT HOME



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3 Primary Energy Formula Driven Funds

- State Energy Program
 - National Investment of \$3.1B
 - Colorado receives \$49.2M (before ARRA: \$500k/yr)
- Low Income Weatherization
 - National Investment of \$5B
 - Colorado receives \$79.5M (before ARRA: \$9M/yr)
- Energy Efficiency and Conservation Block Grants
 - National Investment of \$3.2B
 - Colorado receives \$42.6M



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Expanding GEO's existing services

WEATHERIZATION PROGRAM



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Weatherization

- 10,000 homes are weatherized each year
- Participating homes receive energy efficiency measures such as insulation and appliances
- Representation in 64 counties in Colorado
- Single family and mobile homes, multi family up to 4 attached units, rentals
- Currently managed through 8 soon to be 11 partner agencies located throughout Colorado



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Weatherization

- Recovery Act changes:
 - from \$2,500 max/house to \$6,500 max per house
 - eligibility changed from 150% Federal Poverty Level to 200% FPL



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Going In-





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Attic Insulation- Colorado





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Results After Weatherization

- Direct savings of 20-40% on energy bills
- Frees up family's funding for use in community
- Home is more comfortable, valuable and safer
- Permanent investment that creates long-term value
- Local jobs created





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Focal Point Online Management System

Home - Mozilla Firefox

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https://focalpoint.state.co.us/sites/ESP/Pages/Default.aspx?CalendarDate=9%2F24%2F2009&CalendarPerio

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Version: Draft (10.6) Status: Checked in and viewable by authorized users.

Page Workflow Tools Edit Page Publish

View All Site Content

Documents

- Policies & Procedures
- Field Policies
- Technical

Document Center

Events

Regions

- Region 1
- Region 2
- Region 3
- Region 4
- Region 5
- Region 6
- Region 7
- Region 89
- Region 10

Outreach

Reports

GEO Staff

Wx Outreach

Recycle Bin

Weatherization Portal

Welcome to Weatherization SharePoint® Portal

- See [Report Center](#) for weekly production numbers for all regions.
- See [Events](#) for key dates/deadlines
- See [Document Center](#) for latest Policies & Procedures uploads

I need to Choose

Top Site

Events

September 20 - September 26 2009

Day Week Month

20 Sunday 21 Monday 22 Tuesday 23 Wednesday 24 Thursday 25 Friday 26 Saturday

Travel Day to Alamosa

Tentative Building Shell Tech I Training - VGJ - Alamosa

Fiscal/Job reports due

7 AM

8

9

Done

focalpoint.state.co.us

12:31 PM

Home - Mozilla Firefox

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https://focalpoint.state.co.us/sites/ESP/Docs/Lists/GEO Wx Policies and Procedures/AllItems.aspx

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All Sites Advanced Search

Weatherization Portal

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Weatherization Portal Document Center Reports Search Wx Outreach Outreach GEO Staff

Weatherization Portal > Document Center > GEO Wx Policies and Procedures

GEO Wx Policies and Procedures

View All Site Content

Site Hierarchy

- Documents
- Approved Logos
- Training Photos
- Announcements
- FIELD Policies & Procedures
- GEO Wx Policies and Procedures
- Technical

View: All Items

Document Number	Title	Related Documents	Add Related Documents	Keyword	Last Update
GEO-WX-101.docx	Requests for Proposal			RFP	7/1/2009
GEO-WX-102.1.docx	Special Conditions, Termination of Contract			Special Conditions	7/1/2009
GEO-WX-102.docx	Local Agency Standing Determination			Special Conditions	7/1/2009
GEO-WX-103.1.docx	Supplemental Funds Allocation & Appeals			Fiscal	7/1/2009
GEO-WX-103.docx	Funding Allocation Formulation			Fiscal	7/1/2009
GEO-WX-104.docx	Grievance Resolution			Grievance	7/1/2009
GEO-WX-105.1.docx	Interest on Advances of Grant Funds			Fiscal	7/1/2009
GEO-WX-105.docx	Advance Calculation			Fiscal	7/1/2009
GEO-WX-106.docx	Local Reimbursement Policy			Fiscal	7/1/2009
GEO-WX-108.1.docx	Records Retention			Fiscal	7/1/2009
GEO-WX-108.docx	Closeout Procedures			Fiscal	7/1/2009
GEO-WX-201.docx	Financial Management Systems			Fiscal	7/1/2009
GEO-WX-212.1.docx	State Travel Cost Reimbursement	Reimbursement Request Form		Fiscal	7/1/2009

Done

focalpoint.state.co.us



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Weekly Reporting

Weekly Production - Mozilla Firefox

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https://focalpoint.state.co.us/sites/ESP/Reports/ReportsLibrary/weekly_production.aspx

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Indicator	Goal	Value	Status
Region 1	47	44	▲
Region 2	66	69	●
Region 3	0	0	●
Region 4	50	38	◆
Region 5	27	22	▲
Region 6	75	44	◆
Region 7	75	67	▲
Region 10	50	63	●
Region 45	0	0	●

Excel Web Access - Weekly Production

Update Find View: DOE_IQtr

1st Quarter		July-09					August-09					4-Se									
Week Ending	3-Jul	10-Jul	17-Jul	24-Jul	31-Jul	7-Aug	14-Aug	21-Aug	28-Aug	4-Se	Week Ending	3-Jul	10-Jul	17-Jul	24-Jul	31-Jul	7-Aug	14-Aug	21-Aug	28-Aug	4-Se
Production/Wait List	Prod	10-Jul	17-Jul	24-Jul	31-Jul	7-Aug	14-Aug	21-Aug	Prod	Wait List	Prod	10-Jul	17-Jul	24-Jul	31-Jul	7-Aug	14-Aug	21-Aug	28-Aug	4-Se	
Region 1 - NECALG	2	14	4	15	17	9	13	12	10	65	5										
Region 2 - Pueblo		8	11	10	16	7	35	10	17	75	11										
Region 3 - VGJ-Alamosa																					
Region 4 - HRWC	4	3	6	7	8	6	10	13	9	135	10										
Region 5 - NWCCOG	0	0	0	13	20	0	3	9	10	38	6										

Report Center - Mozilla Firefox

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https://focalpoint.state.co.us/sites/ESP/Reports/Pages/Default.aspx

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Weatherization Portal Document Center Reports Search Wx Outreach Outreach GEO Staff Site Actions

View All Site Content

Reports

- Weekly Production

Dashboards

- WAP Allocations by Region

Recycle Bin

Weatherization Portal > Reports

Using the Report Center

Report Center features include:

- Key Performance Indicators (KPIs) enable you to communicate goals, trends and track progress.
- Dashboards enable you to give a more detailed explanation of your information using Excel workbooks and KPIs. Dashboard filters make it easy to select a range of information to view. To create your own dashboard go to the Dashboards view of the Reports library and click 'New'.
- The Reports library is designed to store files containing reports and dashboards and allow easy access to information from previous time periods.

Reports available in the Weatherization Report Center are:

- Weekly Production Report
- WAP Allocations by Region through 2011
- More to come soon...

Production KPIs

Show Only Problems

Indicator	Status
Region 1	▲
Region 2	●
Region 3	●
Region 4	◆
Region 5	▲
Region 6	◆
Region 7	▲
Region 10	●
Region 45	●

Upcoming Events

There are currently no upcoming events. To add a new event, click "Add new event" below.

Add new event



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Additional Oversight Protocol

- DOE requires annual site visits- Colorado does monthly visits
- DOE requires 5% monitoring of homes- Colorado aims for a minimum of 10% and higher as required
- DOE requires an internal audit of procedures once a year- Colorado does 2



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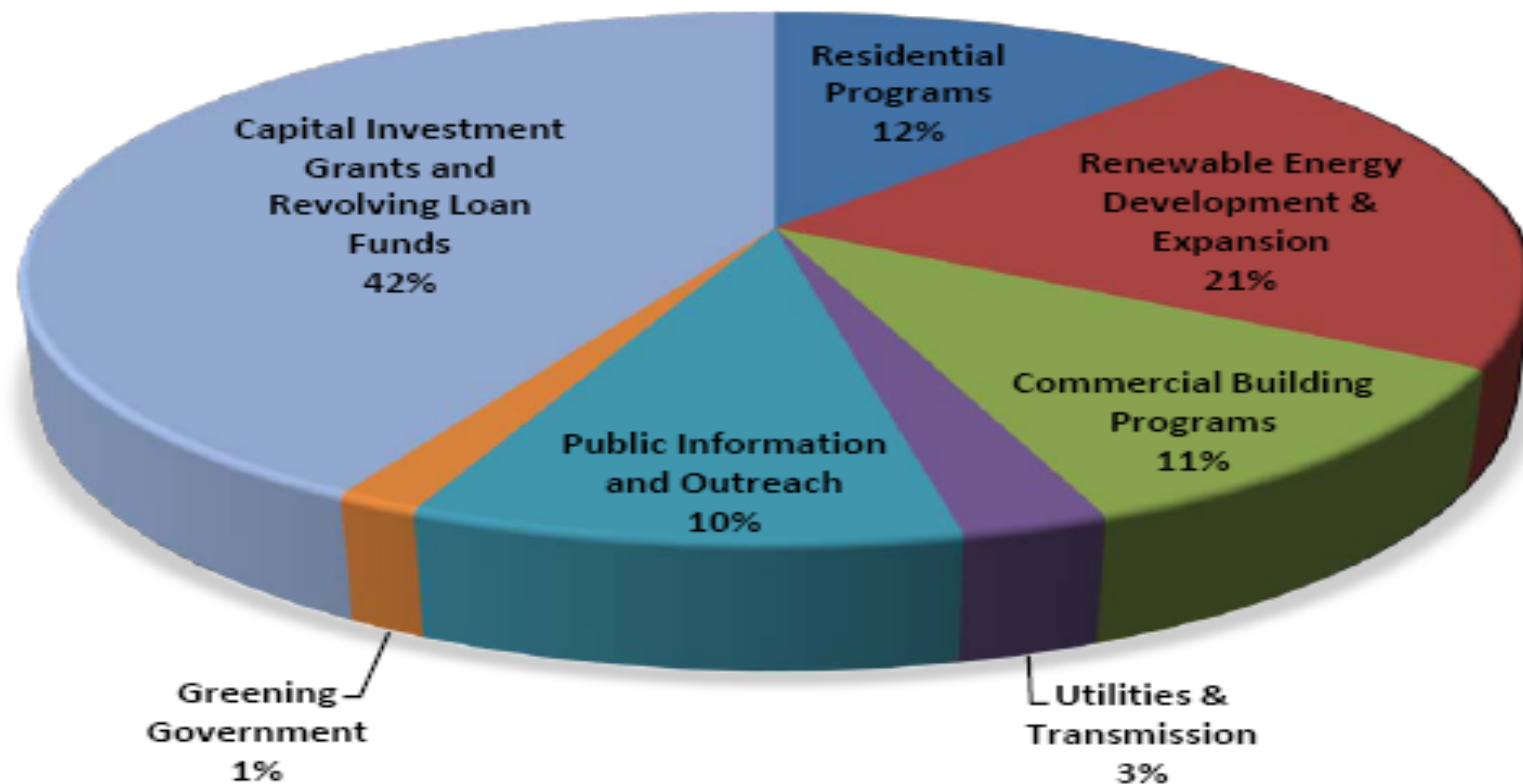
Changing the way we think about energy

STATE ENERGY PLAN



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State Energy Program Resource Distribution



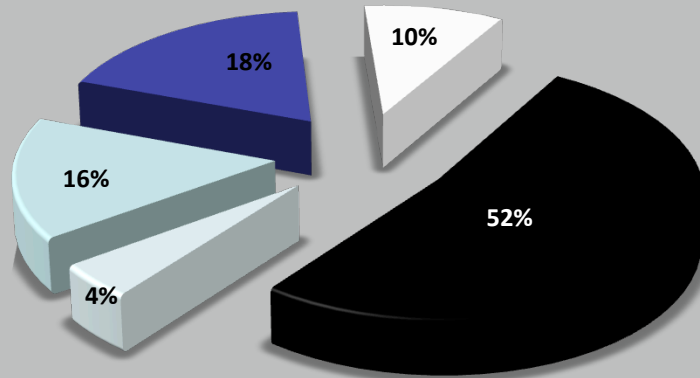


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Financing/Capital Investments - \$19.2M



Finance & Capital Investment Grants



Revolving Loans Fund

New Energy Economy
Development Grants

Renewable Energy Finance

Debt Financing

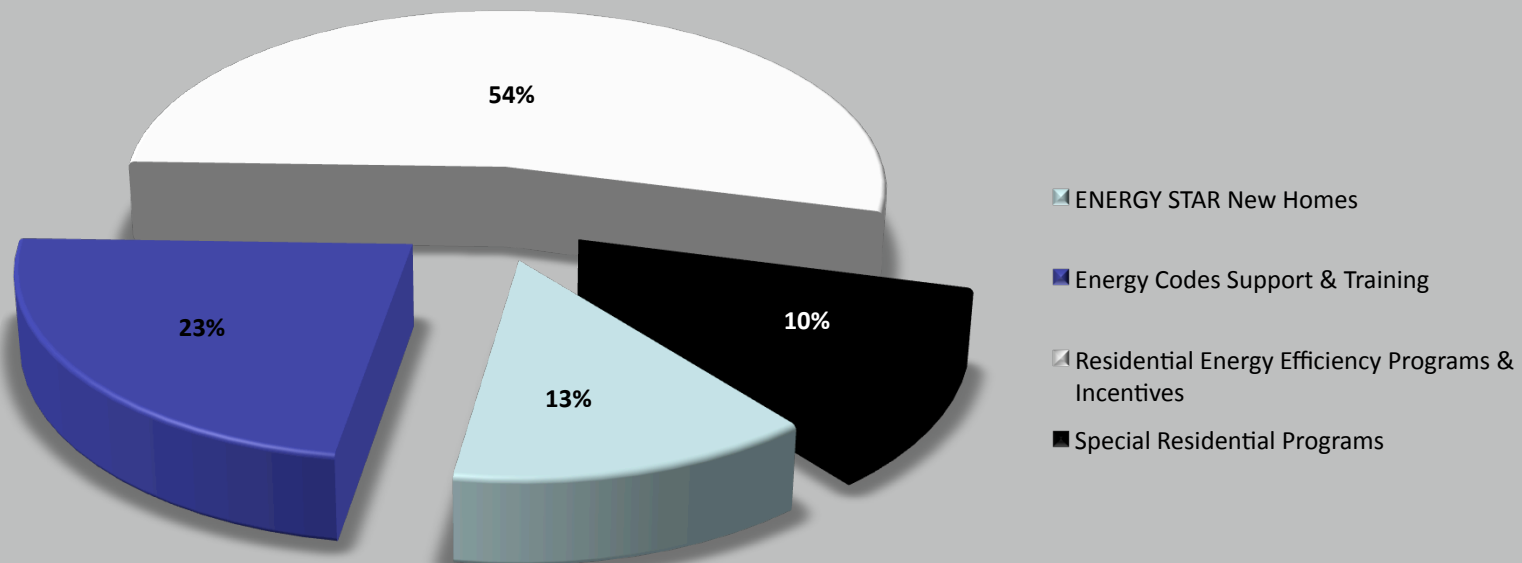
CREED



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Residential Programs -\$5.7M

Residential Programs



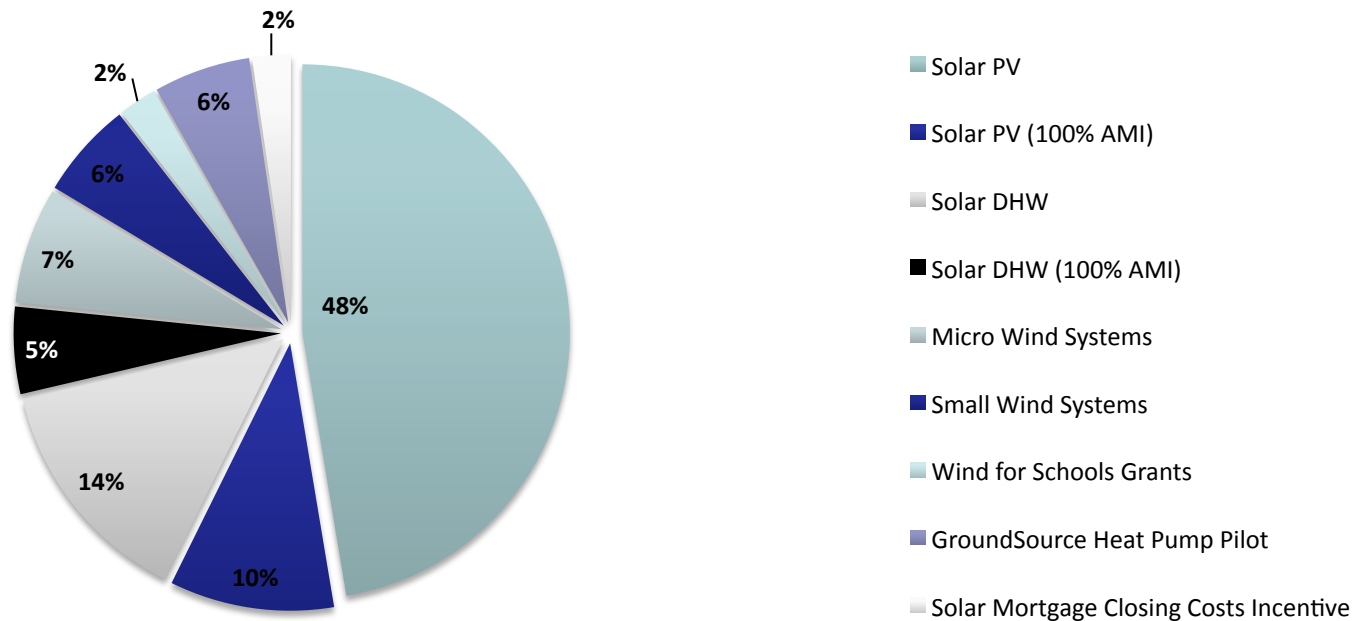


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Renewable Energy - \$9.8M

▪ \$9,775,334

Renewable Energy Rebates





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Renewable Energy Development Team

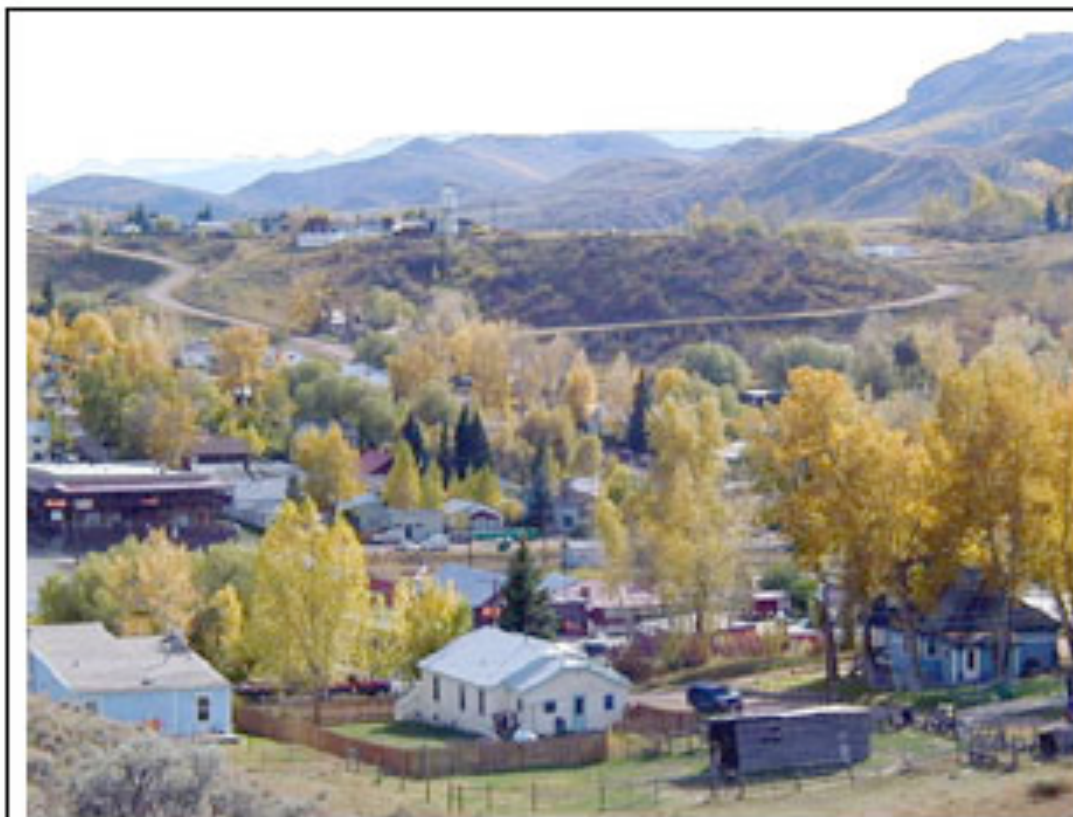
Phase 1 - Initial project development review. Phase 1 essentially is a high level “go/no go” project screen that will determine the highest potential projects for development. For each of the technology areas, the REDT will develop a framework to screen projects.

Phase 2- Development assistance for a feasibility study. Phase 2 is the beginning stages of a business plan for the project. It is anticipated that the REDT will review approximately 80 Phase 1 projects of which roughly 50% will move on to Phase 2.



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The Oak Creek Project





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Coal Boiler at the Local School Campus





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Ash and Clinkers...





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Coal Ash





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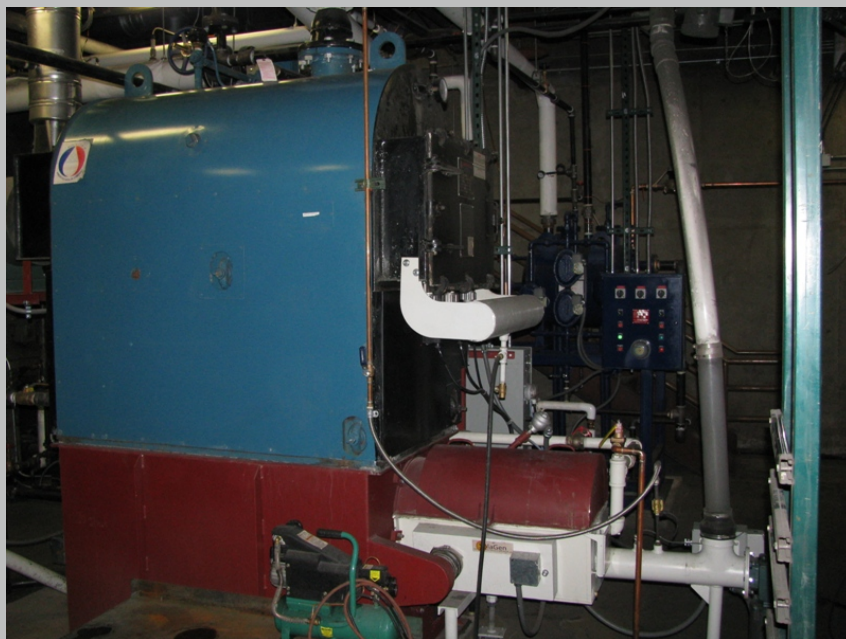
Coal Ash in the Classroom





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New Boiler





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Pellet Silo





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Beetle Kill Lodgepole- Kremmling, Colorado





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Trees





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Becoming Pellets-





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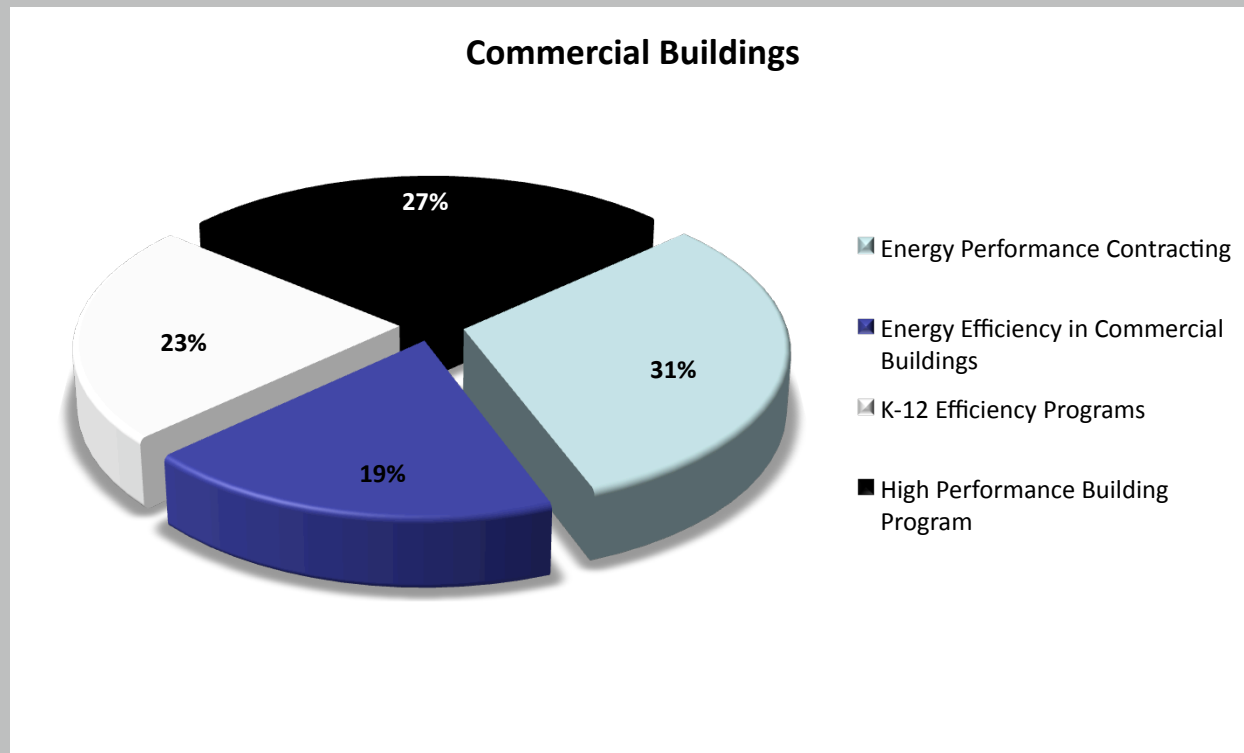
Utilization-





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Commercial Buildings - \$4.9M





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Access to Information - \$4.7M

57 Utilities, 271 Municipalities, 64
Counties

Web-based interface

Call Center Hotline

Consumer Education and Outreach



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The GEO Approach to Building a State Energy Plan





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*ASES/MISI Study:
Colorado 'Green
Collar Jobs' forecast:
613,000 jobs from
renewable energy
and energy
efficiency by 2030*



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Communities get into the game

ENERGY EFFICIENCY CONSERVATION BLOCK GRANTS



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Energy Efficiency Conservation Block Grant (EECBG)

\$42,618,700 total to Colorado

\$ 32,878,300 directly to 20 cities and 10 counties, based on a population-related formula grant

\$ 9,593,500 to the state energy office, of which GEO will issue no less than \$5,756,100 in subgrants to non-entitled municipalities and counties

Southern Ute Indian Tribe of the Southern Ute Reservation,
Colorado \$ 71,900

CO/NM/UT Ute Mountain Tribe of the Ute Mountain
Reservation, Colorado, New Mexico & Utah \$ 75,000

Nationwide Competitive Grants to be
announced in the fall 2009

\$400M – state, all local governments
\$ 50M – non-entitled local governments



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Colorado Governor's Energy Office EECBG Assistance



Local Programs Manager

Assistance with EECBG requirements and application

Common policy, statewide issues

Statewide EE and Conservation Strategy document

Regional Representatives

EE and RE technical assistance and program development guidance

Customized local / regional EE and Conservation Strategy document



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Cities with Direct EECBG Allocations

Arvada	\$951,900	Grand Junction	\$229,800
Aurora	\$2,851,300	Greeley	\$869,100
Boulder	\$1,017,800	Lakewood	\$1,326,100
Broomfield	\$516,600	Littleton	\$182,500
Castle Rock	\$174,800	Longmont	\$785,100
Centennial	\$922,900	Loveland	\$606,400
Colorado Springs	\$3,666,100	Parker	\$172,400
Commerce City	\$185,200	Pueblo	\$1,007,000
Denver	\$6,079,500	Thornton	\$965,500
Fort Collins	\$1,307,900	Westminster	\$952,800



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Counties with Direct EECBG Allocations

Adams	\$683,800
Arapahoe	\$633,000
Boulder	\$462,200
Douglas	\$757,800
El Paso	\$1,937,700
Garfield	\$227,500
Jefferson	\$2,212,100
Larimer	\$364,200
Mesa	\$359,800
Weld	\$616,400



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Clean Renewable Energy Bonds (CREBs)

CREBs were originally approved by the Energy Improvement and Extension Act of 2008.

The ARRA increased the new CREB authorization from \$800M to \$2.4billion

CREBS are essentially zero interest tax credit bonds for RE projects in which the interest is paid for by the Federal government. (In practice, they are more like 1-2% including transaction costs.)

They can be issued by state and local governments, public power providers, coops, and CREB lenders.

Presently there is no guidance yet from the IRS about the application process or timing of CREBs.



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Qualified Energy Conservation Bonds (QECBs)

Like CREBs, QECBs were also created by the Energy Improvement and Extension Act of 2008. The ARRA increased the QECB appropriation to \$3.2 billion. Colorado \$51,244,000 allocation*.

Distributed: 1/3 governmental bodies, 1/3 public power providers, 1/3 coops. Key differences are:

- CREBs finance RE projects
- QECBS finance green community programs

QECBs can be used for:

Any project that qualifies for a CREB, projects that reduce energy consumption in public buildings by at least 20%, green community programs, rural RE projects, mass commuting projects, public education, and demonstration projects.

Source: <https://www.gkbaum.com/renewableEnergy/QECB%20Allocations.pdf>



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Routt and North West Activities

- NWCOG weatherization agency \$1.5M ARRA
- Moffat, Rio Blanco, Routt approximately \$120,000 grant
- Grand, Jackson, Clear Creek, Gilpin approximately \$100,000 grant
- City of Steamboat Springs, Yampa Valley Sustainability Council and Mountain Energy Consultants form the Routt County ESNH partnership



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Entity Name	Status	County
East Grand 2	TEA	Grand
North Park R-1	Construction	Jackson
Hayden Re-1	M&V	Routt
Routt, County of	TEA	Routt
South Routt Re 3	M&V	Routt
Steamboat Springs Re-2	Introduction	Routt
Steamboat Springs, City of	TEA	Routt
Yampa, Town of	Introduction	Routt



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